

Abstract of the Disclosure

In accordance with a policy to dynamically
reallocate a computer resource to a plurality of virtual
5 machine LPARs (Logical Partitions), optimum quantities of
resource allocation are determined so that the virtual
machine LPARs will hardly have resource shortages in the
near future. A resource management server collects states
of resource utilizations of the virtual machine LPARs and,
10 then, forecasts next states of resource utilizations of the
virtual machine LPARs on the basis of the collected states
of resource utilizations. Subsequently, the resource
management server computes coefficients of correlation
among the virtual machine LPARs with respect to the
15 resource utilizations of the virtual machine LPARs on the
basis of execution histories of the virtual machine LPARs.
Finally, the resource management server computes the
optimum quantities of resource allocation on the basis of
the forecasted states of resource utilizations and the
20 computed coefficients of correlation, allocating the
computer resource to the virtual machine LPARs in
accordance with the computed optimum quantities of resource
allocation.